# 9. 510(k) summary of safety and effectiveness

This summary of safety and effectiveness information is being submitted in accordance with the requirements of The Safety Medical Devices Act of 1990 (SMDA 1990) and 21 CFR Part 807.92.

JAN 1 5 2008

Assigned 510(k) Number: k072149

Date of Summary Preparation: January 7, 2008

Manufacturer:

Phadia AB Rapsgatan 7

SE-751 37 Uppsala, Sweden

510 (k) Contact Person:

Martin Mann

Regulatory Affairs Manager

Phadia US Inc.

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**Device Name:** 

EliA<sup>TM</sup> Symphony Immunoassay

EliA<sup>TM</sup> ANA Control

Common Name:

Antinuclear antibody immunological test system and

Control

#### Classification

<b>Product Name</b>	Product Code	<u>Class</u>	<u>CFR</u>
EliA™ Symphony Immunoassay	LLL	H	866.5100
EliA <sup>TM</sup> ANA Control	LLL	II	866.5100

#### Substantial Equivalence to

QUANTA Lite™ ENA 6
(predicate device for RNP Antibodies,
SS-A/Ro Antibodies, SS-B/La Antibodies,
Scl-70 Antibodies, Jo-1 Antibodies
and Sm Antibodies)
NOVA Lite™ HEp-2

510(k) number: K961913

510(k) number: K961913

(predicate device for CENP Antibodies)

#### **Intended Use Statement of the New Device**

EliA Symphony Immunoassay is intended for the in vitro qualitative measurement of antinuclear IgG antibodies in human serum and plasma (heparin, EDTA and citrate). EliA Symphony Immunoassay is based on human recombinant U1RNP (RNP 70, A, C), SS-A/Ro (60 kDa, 52 kDa), SS-B/La, Centromere B, Scl-70, Jo-1 proteins and native purified Sm proteins as antigen and is useful as an aid in the clinical diagnosis of patients with systemic lupus erythematosus (SLE), mixed connective tissue disease (MCTD), Sjögren's syndrome, scleroderma and polymyositis/dermatomyositis, in conjunction with other laboratory and clinical findings. EliA Symphony Immunoassay uses the EliA IgG method on the instrument ImmunoCAP 100 and ImmunoCAP 250.

EliA ANA Control is intended for laboratory use in monitoring the performance of in vitro measurement of antinuclear antibodics (ANA) with ImmunoCAP 100 or ImmunoCAP 250 using the EliA IgG method.

#### Special condition for use statement

The device is for prescription use only.

#### Special instrument requirements

ImmunoCAP 100 / ImmunoCAP 250 are fully automated immunoassay analyzers, which include software for evaluation of test results.

#### **General Description of the New Device**

The new device belongs to a fully integrated and automated system for immunodiagnostic testing. It comprises a Fluorescence-Immunoassay test system using EliA single wells as the solid phase and is intended to be performed on the instruments ImmunoCAP 100 and ImmunoCAP 250. The conjugate for the EliA IgG method is mouse anti-human IgG beta-galactosidase, which uses 4-Methylumbelliferyl-\( \text{BD-Galactoside} \) as substrate. The total IgG calibration is based on a set of six WHO-standardized IgG Calibrators derived from human serum. They are used to establish an initial calibration curve, which may be used for up to 28 days on additional assays and can be stored by the instrument. Each additional assay includes calibrator (curve) controls that have to recover in defined ranges to ensure that the stored calibration curve is still valid. The Fluorescence-Immunoassay test system includes test-, method specific and general reagents that are packaged as separate units.

## **Test Principle of the New Device**

The EliA Symphony Wells are coated with human recombinant U1RNP (RNP 70, A, C), SS-A/Ro (60 kDa, 52 kDa), SS-B/La, Centromere B, Scl-70 and Jo-1 proteins, native purified Sm proteins. If present in the patient's specimen, antibodies to the antigens bind to their specific antigen. After washing away non-bound antibodies, enzyme-labeled antibodies against human IgG antibodies (EliA IgG Conjugate) are added to form an antibody-conjugate complex. After incubation, non-bound conjugate is washed away and the bound complex is incubated with a Development Solution. After stopping the reaction, the fluorescence in the reaction mixture is measured. The higher the response value, the more specific IgG is present in the specimen. To evaluate test results, the response for patient samples is compared directly to the response for calibrators.

## **Device Comparison**

The new and the predicate device both represent non-competitive solid phase EIAs. The predicate device for the demonstration of the Centromere B antigen was an IIF, NOVA Lite™ HEp-2 assay. These IVDs are used as an aid in the diagnosis of Systemic Lupus Erythematosus (SLE) and related connective tissue diseases, in conjunction with other laboratory and clinical findings.

## Laboratory equivalence

The comparability of predicate device and new device is supported by a data set including

- results obtained within a comparison study between new and predicate devices
- results obtained for clinically defined sera
- results obtained for samples from apparently healthy subjects (normal population).

In summary, all available data support the conclusion that the new device is substantially equivalent to the predicate devices.





Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Phadia US Inc. c/o Mr. Martin R. Mann Regulatory Affairs Manager 4169 Commercial Ave Portage, MI 49002

JAN 1 5 2008

Re: k072149

Trade/Device Name: EliA™ Symphony Immunoassay and EliA™ ANA Control

Regulation Number: 21 CFR 866.5100

Regulation Name: Antinuclear antibody immunological test system

Regulatory Class: Class II

Product Code: LLL Dated: January 10, 2008 Received: January 14, 2008

Dear Mr. Mann:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The

FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific information about the application of labeling requirements to your device, or questions on the promotion and advertising of your device, please contact the Office of In Vitro Diagnostic Device Evaluation and Safety at (240) 276-0450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at 240-276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at 240-276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <a href="http://www.fda.gov/cdrh/industry/support/index.html">http://www.fda.gov/cdrh/industry/support/index.html</a>.

Sincerely yours,

Robert L. Becker, Jr., M.D., Ph.D.

Director

Division of Immunology and Hematology Devices Office of In Vitro Diagnostic Device Evaluation and Safety Center for Devices and Radiological Health

Enclosure

## 1. Indications for Use Statements

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510(k) Number:

K072149

Device Name:

EliA<sup>TM</sup> Symphony Immunoassay

#### **Indications For Use:**

EliA Symphony Immunoassay is intended for the in vitro, qualitative measurement of antinuclear IgG antibodies in human serum and plasma (heparin, EDTA and citrate). EliA Symphony Immunoassay is based on human recombinant U1RNP (RNP 70, A, C), SS-A/Ro (60 kDa, 52 kDa), SS-B/La, Centromere B, Scl-70, Jo-1 proteins and native purified Sm proteins as antigen and is useful as an aid in the clinical diagnosis of patients with systemic lupus erythematosus (SLE), mixed connective tissue disease (MCTD), Sjögren's syndrome, scleroderma and polymyositis/dermatomyositis, in conjunction with other laboratory and clinical findings. EliA Symphony Immunoassay uses the EliA IgG method on the instrument ImmunoCAP 100 and ImmunoCAP 250.

Prescription Use \_\_√\_\_ AND/OR Over-The-Counter Use \_\_\_ (Part 21 CFR 801 Subpart D) (21 CFR 807 Subpart D)

(21 CFR 807 Subpart C)

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Concurrence of CDRH, Office of Device Evaluation (ODE)

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Office of In Vitro Diagnostic Device **Evaluation and Safety** 

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## Indications for Use

-51	.0(k)	Num	ber:

Device Name:

EliA<sup>TM</sup> ANA Control

## **Indications For Use:**

EliA ANA Control is intended for laboratory use in monitoring the performance of in vitro measurement of antinuclear antibodies (ANA) with ImmunoCAP 100 or ImmunoCAP 250 using the EliA IgG method.

Prescription Use \_\_\_\_ AND/OR Over-The-Counter Use \_\_ (Part 21 CFR 801 Subpart D)

(21 CFR 807 Subpart C)

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